

FIG. 1

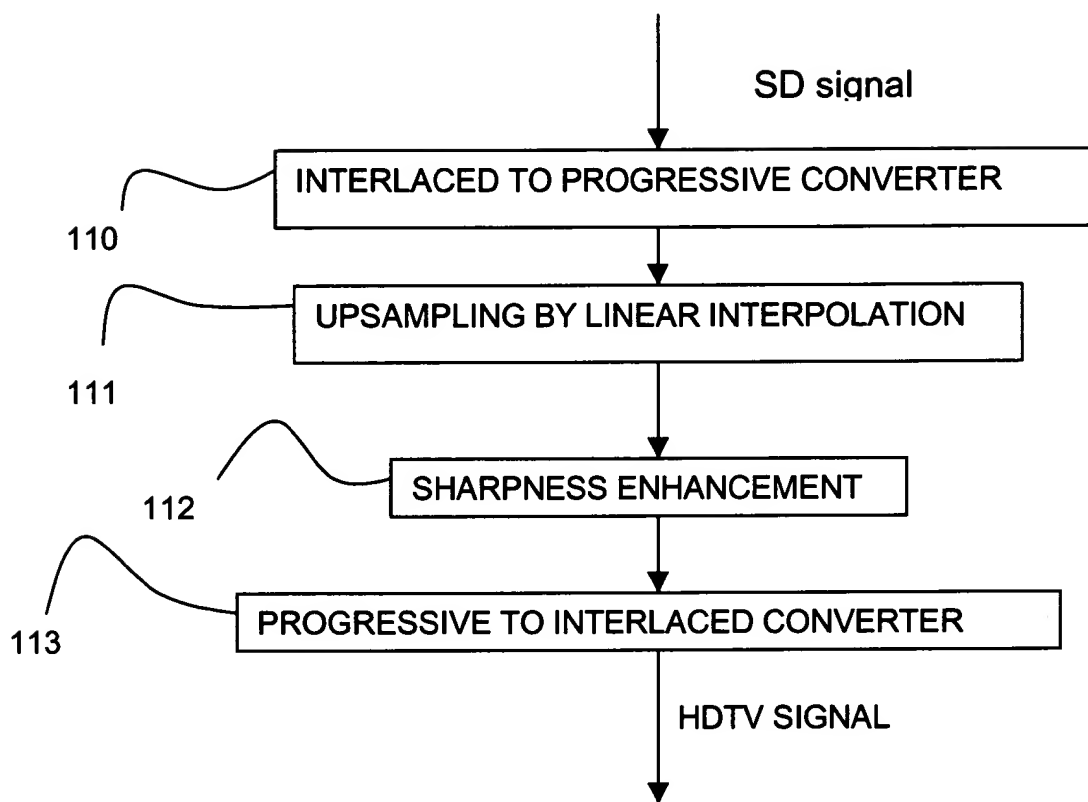
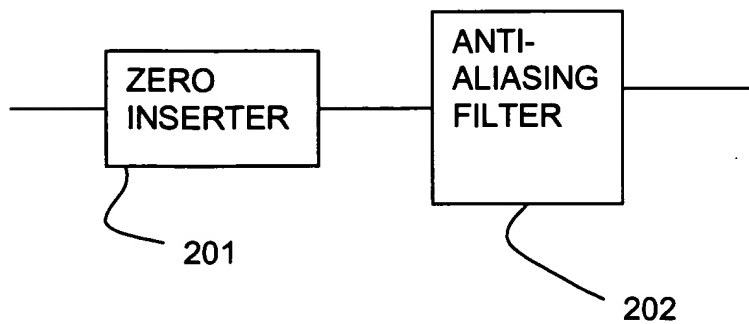


FIG. 2



linear interpolation

time domain

frequency domain

Fig. 3a

input signal

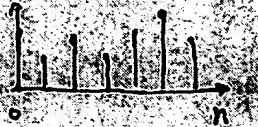


Fig. 3b

Fig. 4a

insert zeros



Fig. 4b

ideal anti-aliasing filter



Fig. 5

after anti-aliasing filter

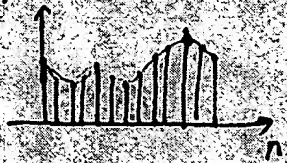


Fig. 6b

Fig. 6a

if the anti-aliasing filter  
is not ideal as  
in the most of  
real situations



Fig. 7

Fig. 8a



Fig. 8b

801  
aliasing



FIG. 9

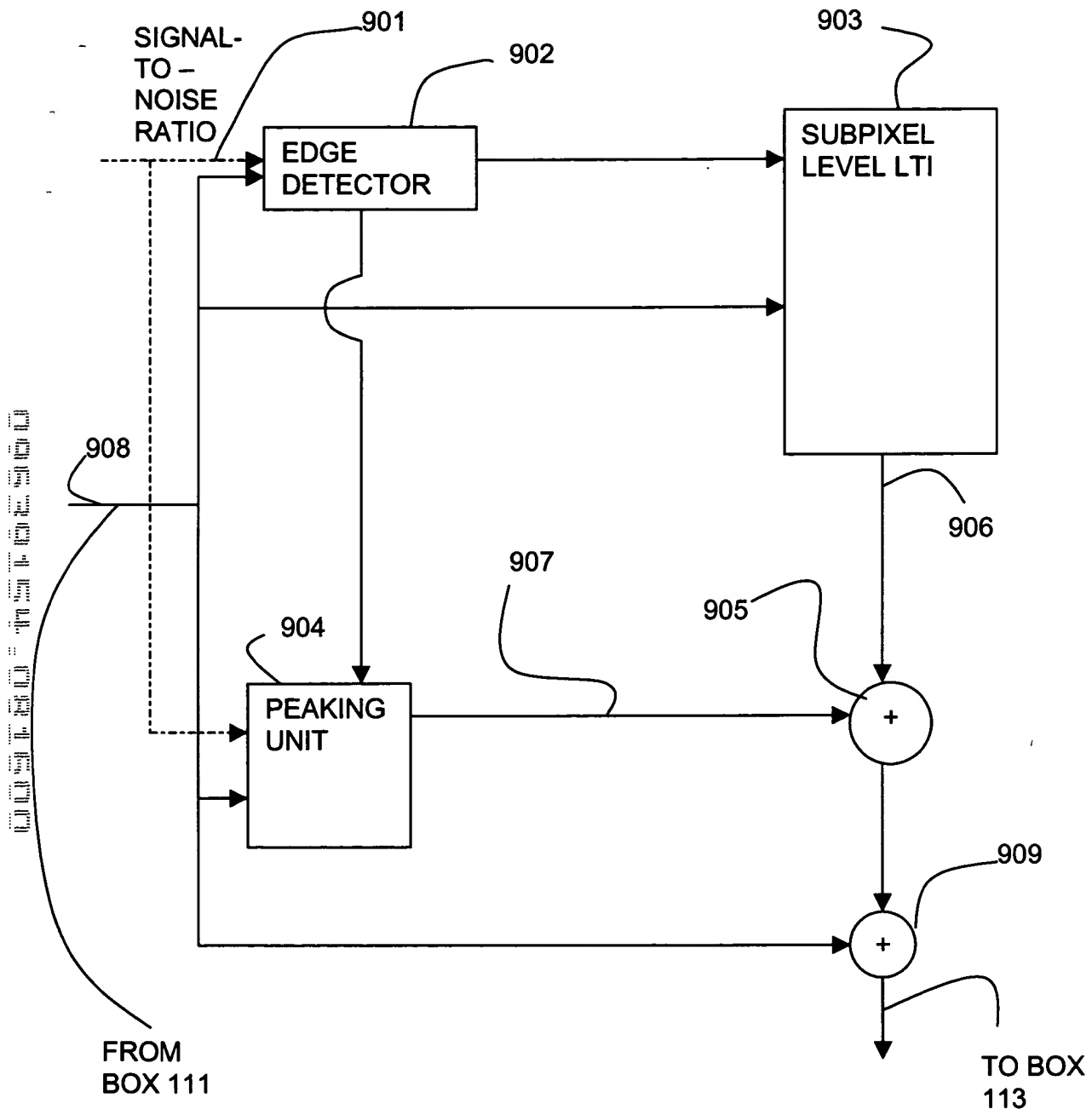
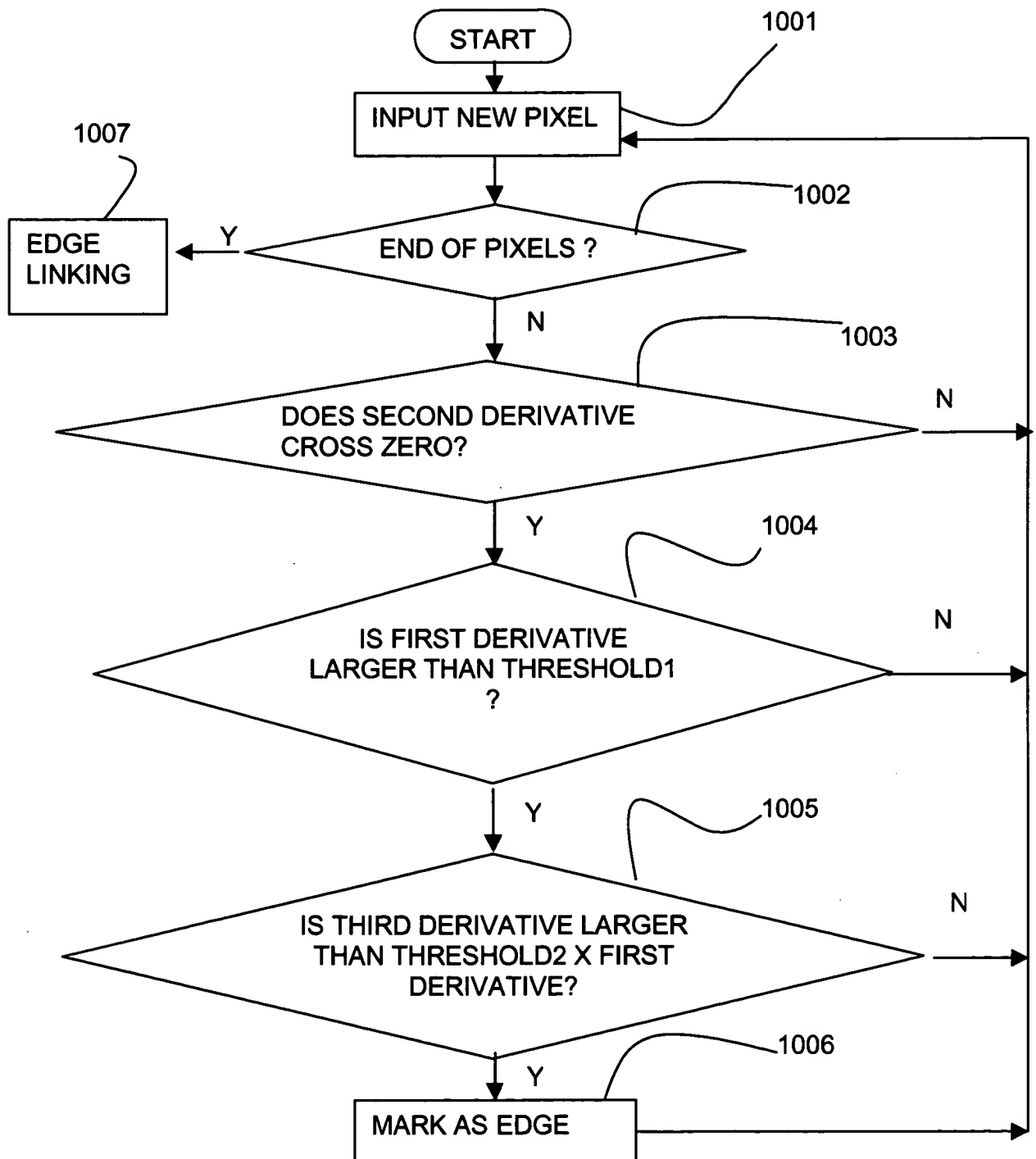


Fig. 10



009T60" T5T6E360

FIG. 11

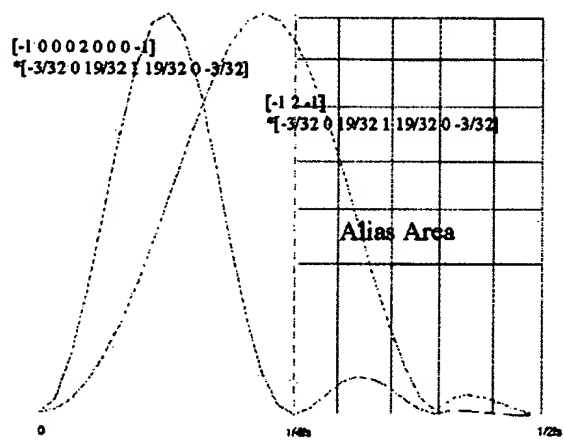


FIG. 12A

$\alpha = 0.3$

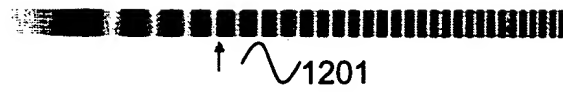


FIG. 12B

$\alpha = 0.5$

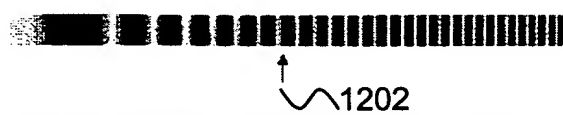
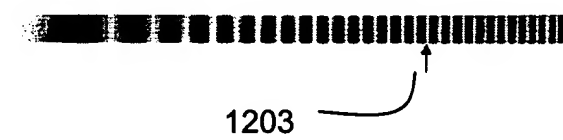


FIG. 12C

$\alpha = 1.0$



Rule 1

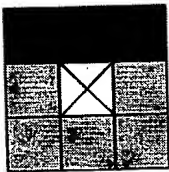
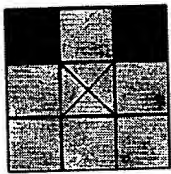


FIG. 13A

FIG. 13B

Rule 2

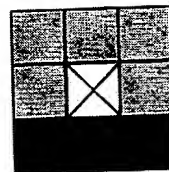
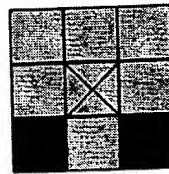


FIG. 13C

FIG. 13D

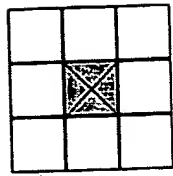
[illegible]

FIG. 13E

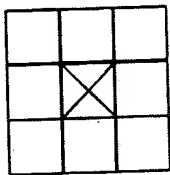


FIG. 13 F

## Rule 2

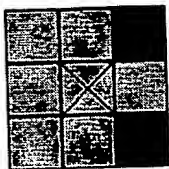


FIG. 14C

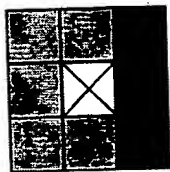


FIG. 14D

## Rule 1

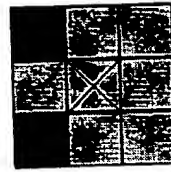


FIG. 14A

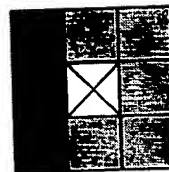


FIG. 14B

### Rule 3

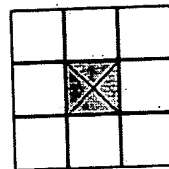


FIG. 14E

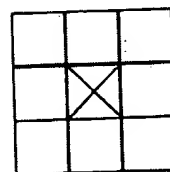


FIG. 14F